

CLAIMS**What is claimed is:**

1. A method for processing, within a mobile device, protocol aiding data received at a call processor with a Global Positioning System ("GPS") interface, where the protocol aiding data is produced according to a Geolocation Server Station protocol, the method comprising:

receiving, at the GPS interface, the protocol aiding data received at the call processor;

converting the received protocol aiding data to interface data that is transparent to the Geolocation Server Station protocol; and

passing the interface data to a GPS module.

2. The method of claim 1, further including packing the interface data into a message format before passing the interface data to the GPS module.

3. The method of claim 1, wherein the call processor receives the protocol aiding data from a base station.

4. The method of claim 3, wherein a Geolocation Server Station produces the aiding data.

5. The method of claim 4, wherein the Geolocation Server Station utilizes a Code Division Multiple Access ("CDMA") protocol to produce the protocol aiding data.

6. The method of claim 5, wherein the protocol is IS-801.
7. The method of claim 5, wherein the protocol is Universal Mobile Telecommunication System ("UMTS").
8. The method of claim 5, wherein the protocol is CDMA 2000.
9. The method of claim 4, wherein the Geolocation Server Station utilizes a Global System for Mobile Communication ("GSM") protocol to produce the protocol aiding data.
10. The method of claim 4, wherein the Geolocation Server Station utilizes a General Packet Radio Service ("GPRS") protocol to produce the protocol aiding data.
11. The method of claim 4, wherein the Geolocation Server Station utilizes a Time Division Multiple Access ("TDMA") protocol to produce the protocol aiding data.
12. The method of claim 4, wherein the Geolocation Server Station utilizes a Bluetooth[®] protocol to produce the protocol aiding data.

13. The method of claim 4, wherein the Geolocation Server Station utilizes an IEEE 802.11 protocol to produce the protocol aiding data.

14. The method of claim 1, further including utilizing the protocol aiding data for GPS acquisition.

15. The method of claim 1, further including utilizing the protocol aiding data for calculating the location of the mobile device.

16. The method of claim 1, further including utilizing the protocol aiding data for improving the sensitivity of the GPS module.

17. The method of claim 1, wherein passing the interface data to a GPS module includes passing the interface data via a RS232 link.

18. A protocol independent interface for processing, within a mobile device, protocol aiding data received at a call processor with a Global Positioning System ("GPS") interface, where the protocol aiding data is produced according to a Geolocation Server Station protocol, the protocol independent interface comprising:

means for receiving, at the GPS interface, the protocol aiding data received at the call processor;

means for converting the received protocol aiding data to interface data that is transparent to the Geolocation Server Station protocol; and

means for passing the interface data to a GPS module.

19. The method of claim 18, further including packing the interface data into a message format before passing the interface data to the GPS module.

20. The method of claim 19, wherein the call processor receives the protocol aiding data from a base station.

21. The method of claim 20, wherein a Geolocation Server Station produces the aiding data.

22. The method of claim 21, wherein the Geolocation Server Station utilizes a Code Division Multiple Access ("CDMA") protocol to produce the protocol aiding data.

23. The method of claim 22, wherein the protocol is IS-801.

24. A protocol independent interface for processing, within a mobile device, protocol aiding data received at a call processor where the protocol aiding data is produced according to a Geolocation Server Station protocol, the protocol independent interface comprising:

an air-interface protocol to GPS module interface converter;
a serial link in signal communication between the call processor and Global Positioning System ("GPS") module; and
a GPS module data structure.

25. A method for processing, within a mobile device, protocol aiding data received at a call processor with a Global Positioning System ("GPS") interface, where the protocol aiding data is produced according to a Geolocation Server Station protocol, the method comprising:

receiving, at the GPS interface, the protocol aiding data received at the call processor;

passing the interface data to a GPS module; and

converting the received protocol aiding data to interface data that is transparent to the Geolocation Server Station protocol.

26. A protocol independent interface for processing, within a mobile device, protocol aiding data received at a call processor with a Global Positioning System ("GPS") interface, where the protocol aiding data is produced according to a Geolocation Server Station protocol, the protocol independent interface comprising:

means for receiving, at the GPS interface, the protocol aiding data received at the call processor;

means for passing the interface data to a GPS module; and

means for converting the received protocol aiding data to interface data that is transparent to the Geolocation Server Station protocol.